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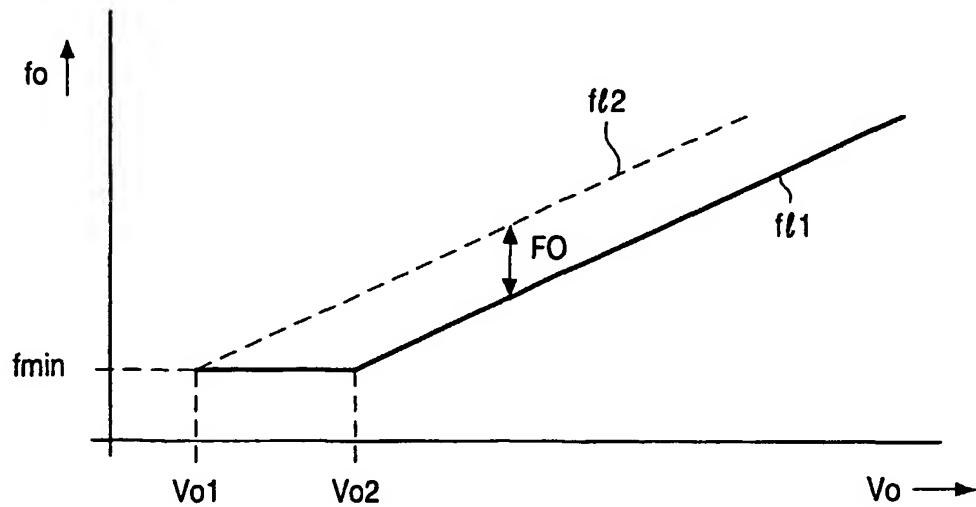
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(54) Title: DC-DC CONVERTER



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(57) Abstract: A DC-DC converter comprises a switch (S1) which periodically connects an inductor (L) to a DC-input voltage (Vi) during an on-period (Ton) of a period time (Tp), an operating frequency (fo) of the DC-DC converter is the inverse of the period time (Tp). An output (O1) of the DC-DC converter is coupled to the inductor (L) to supply an output voltage (Vo). A controller (CO) controls the operating frequency (fo) of the DC-DC converter to be substantially proportional to the output voltage (Vo) to obtain a substantially constant average duration of the on-period (Ton) as function of the output voltage (Vo).